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#4

START

Place patient in body localizer and form body mold by the use of a vacuum lock or foam system

Fixate thermoplastic sheet to further restrain a body part

Align stereotactic body localizer in CT or MR gantry (PET and SPECT may also be used)
or other imaging

Perform CT or MR imaging

Transport images to computer treatment planning system

Perform calibration of images and stereotactic volumetric spatial calculations

Determine stereotactic coordinates, areas or volumes (structures) within imaged body part using resolver algorithm.

Perform trajectories and volumetric calculations.
treatment

Determine treatment plan to effectively treat volume or structure, e.g., biopsy, radiation, or beam therapy

Transport patient to linear accelerator and align patient in body localizer

Align body localizer with patient in radiation treatment field according to determined stereotactic coordinates.

Treat patient according to radiation plan.

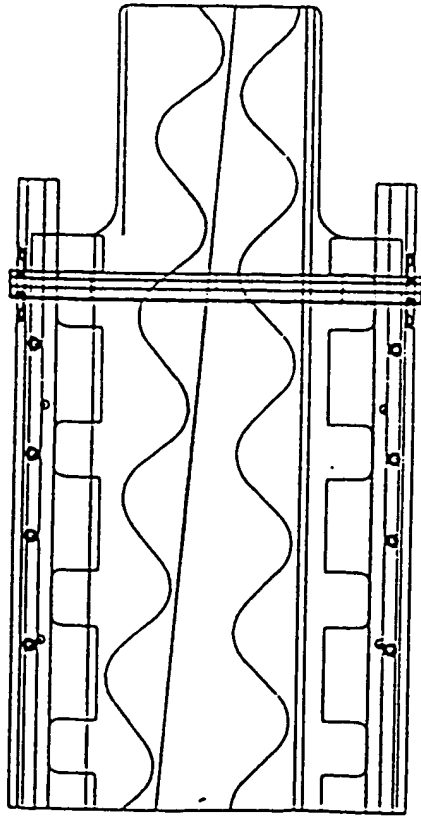
Patient may be returned on repeat occasions, realigned and retreated.

END

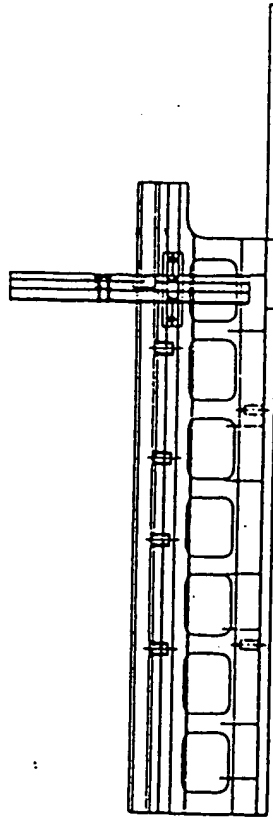
biopsy or
Surgery
according
to treatment
plan.

Fig. 1

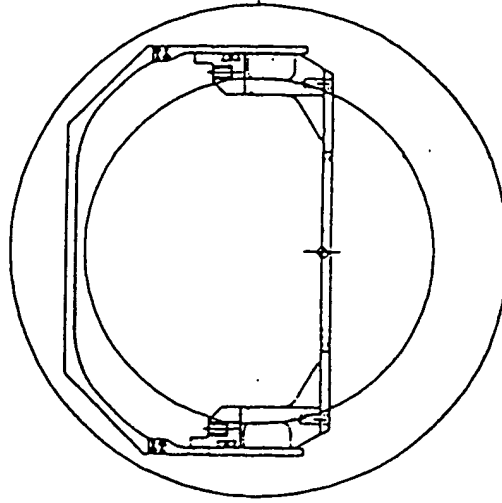
10029305-061202



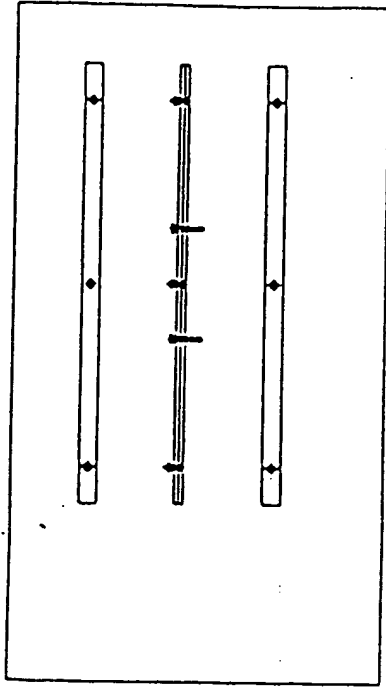
(c)



(a)



(b)



(d)

Fig. 2

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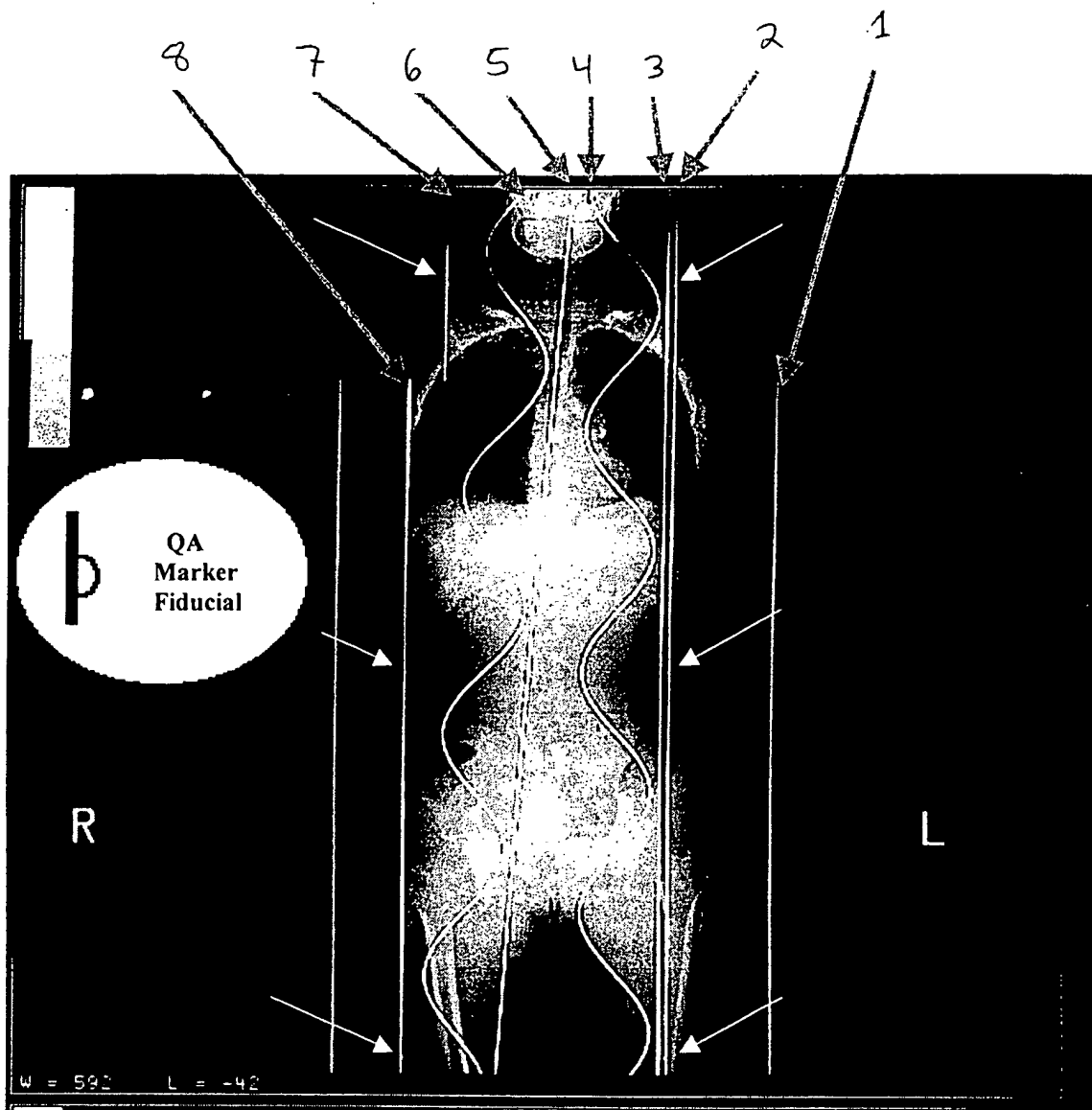


Figure 3

202190-50662001

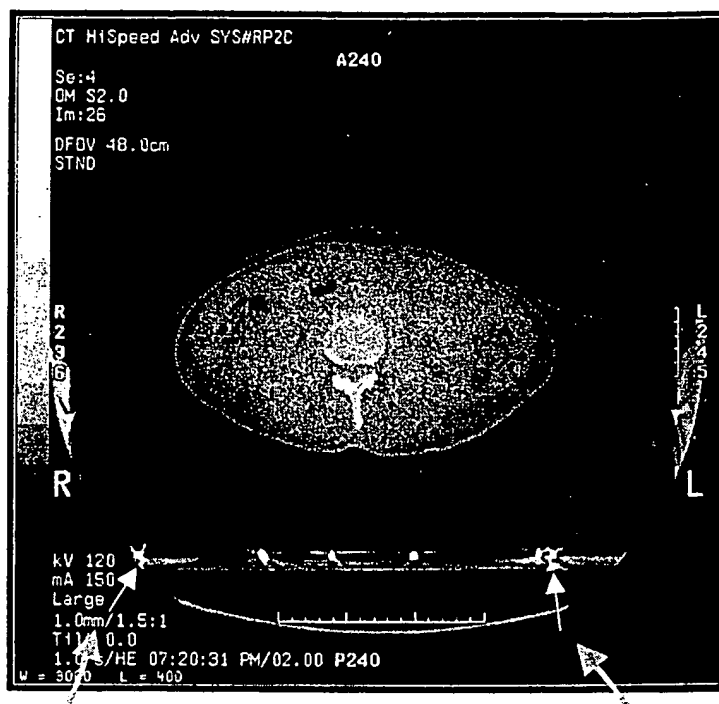


Figure 4

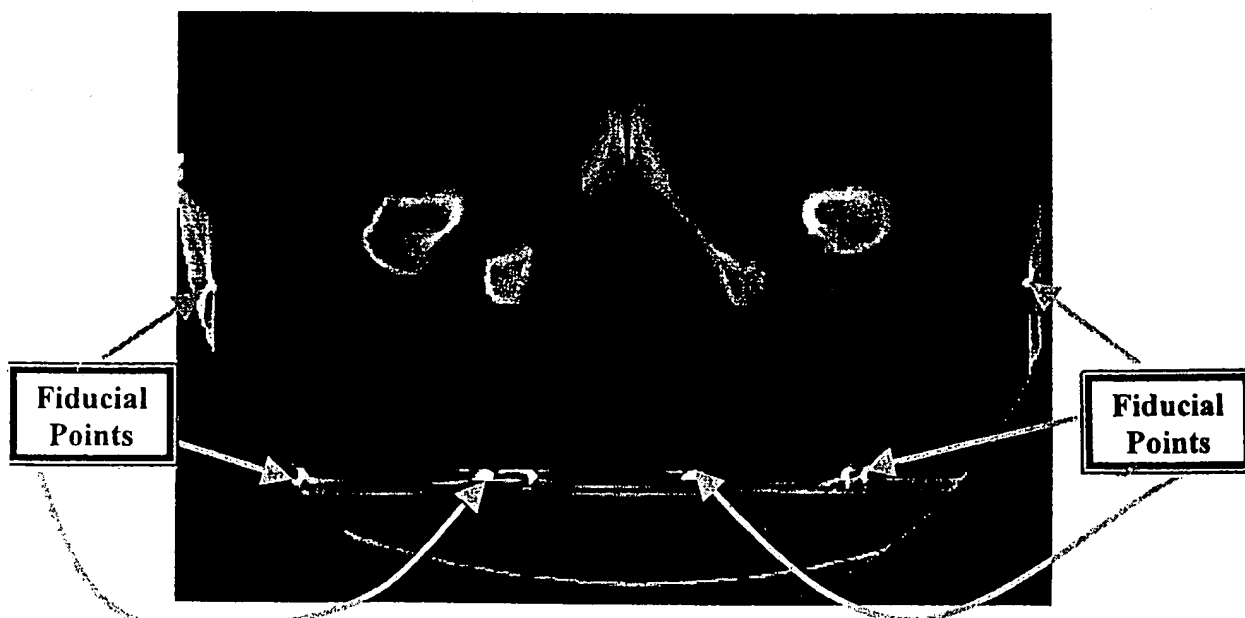


Figure 5

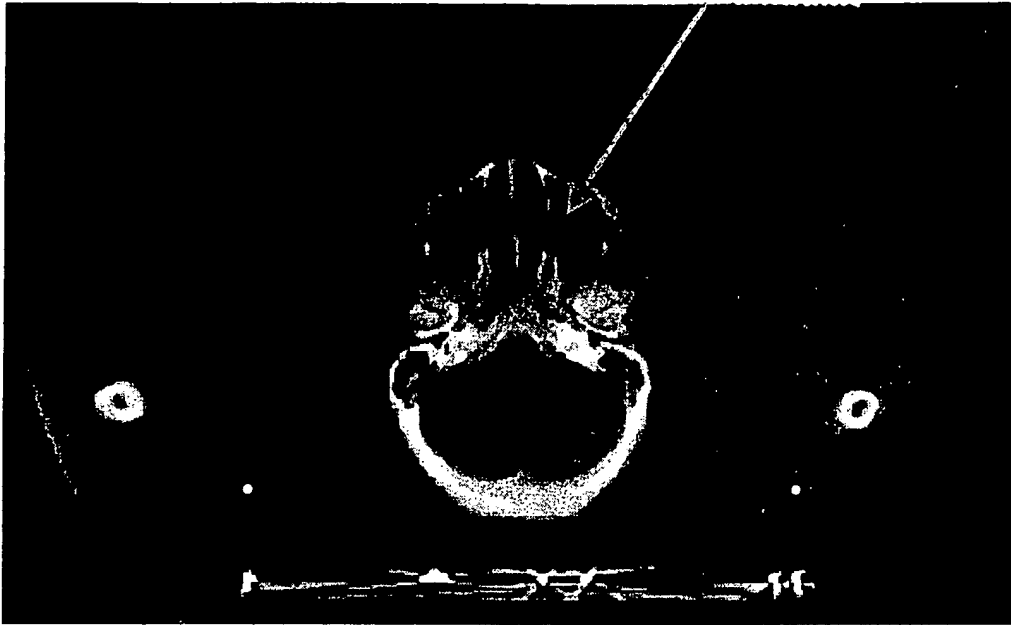


Figure 6

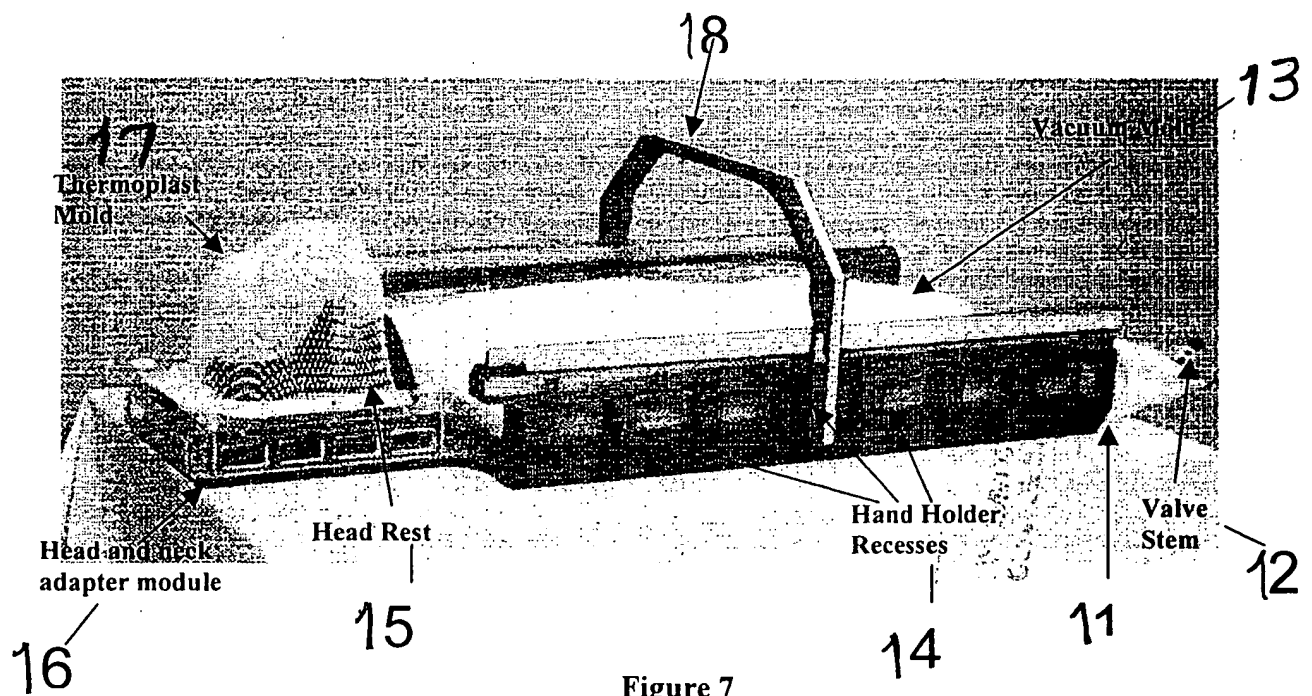


Figure 7

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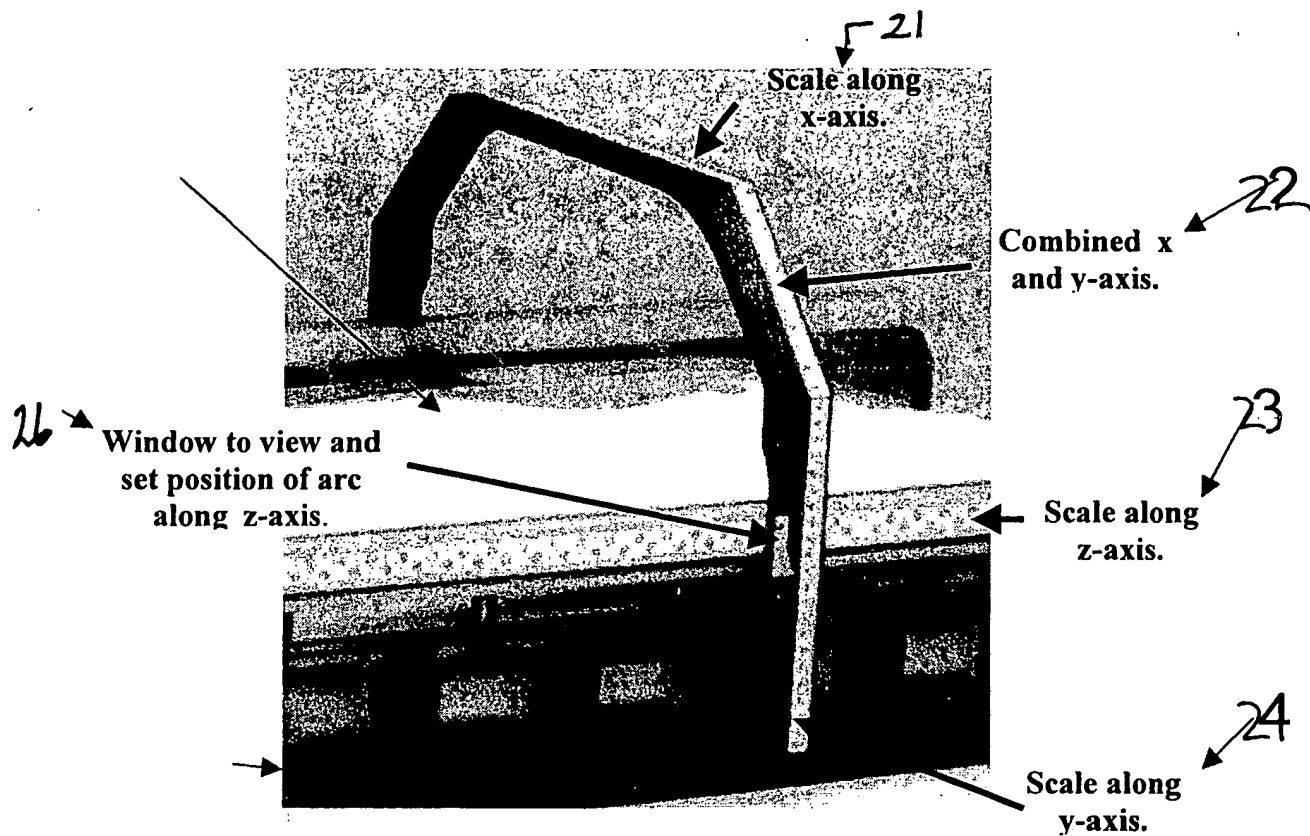


Figure 8

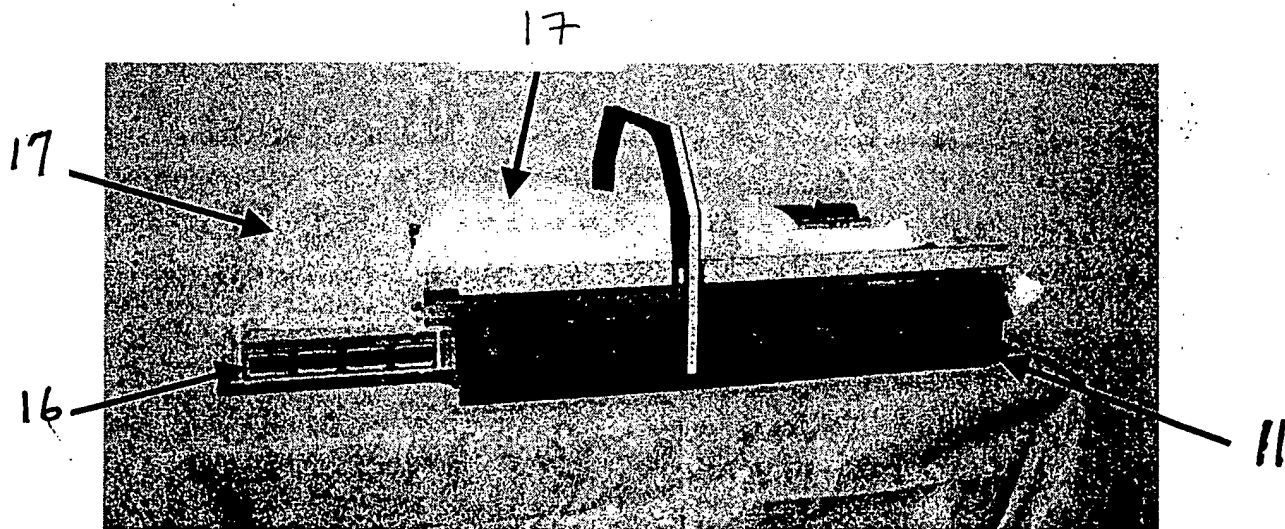


Figure 9

10029305-051202

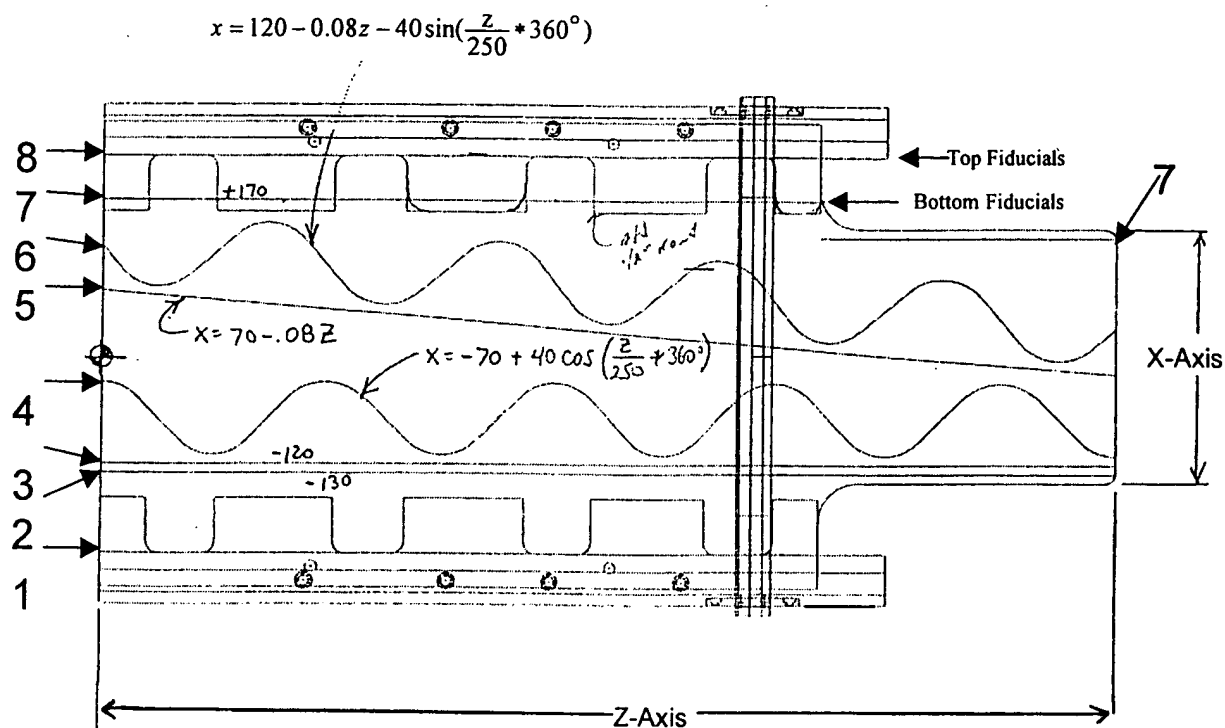


Figure 10

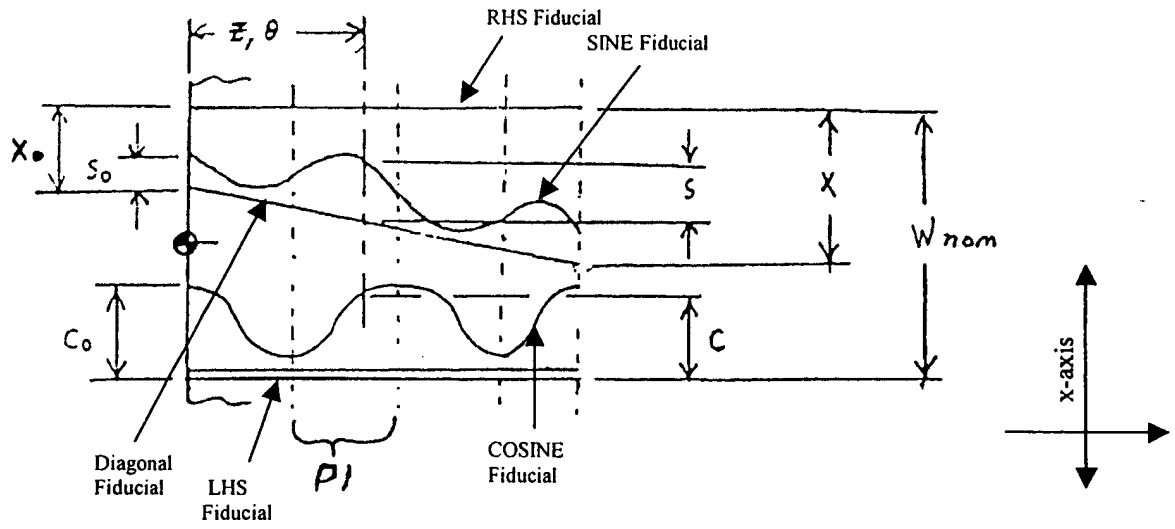


Figure 11.

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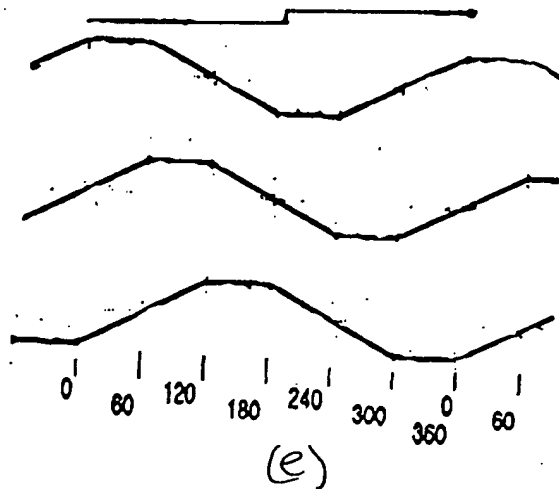
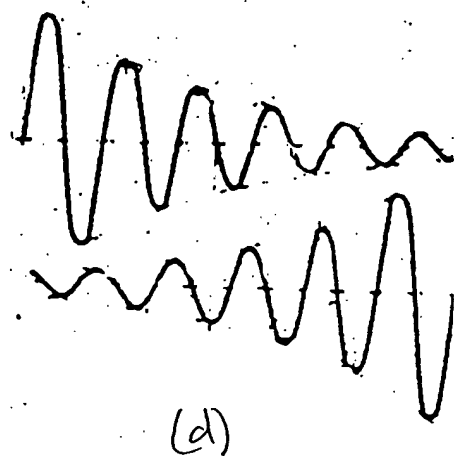
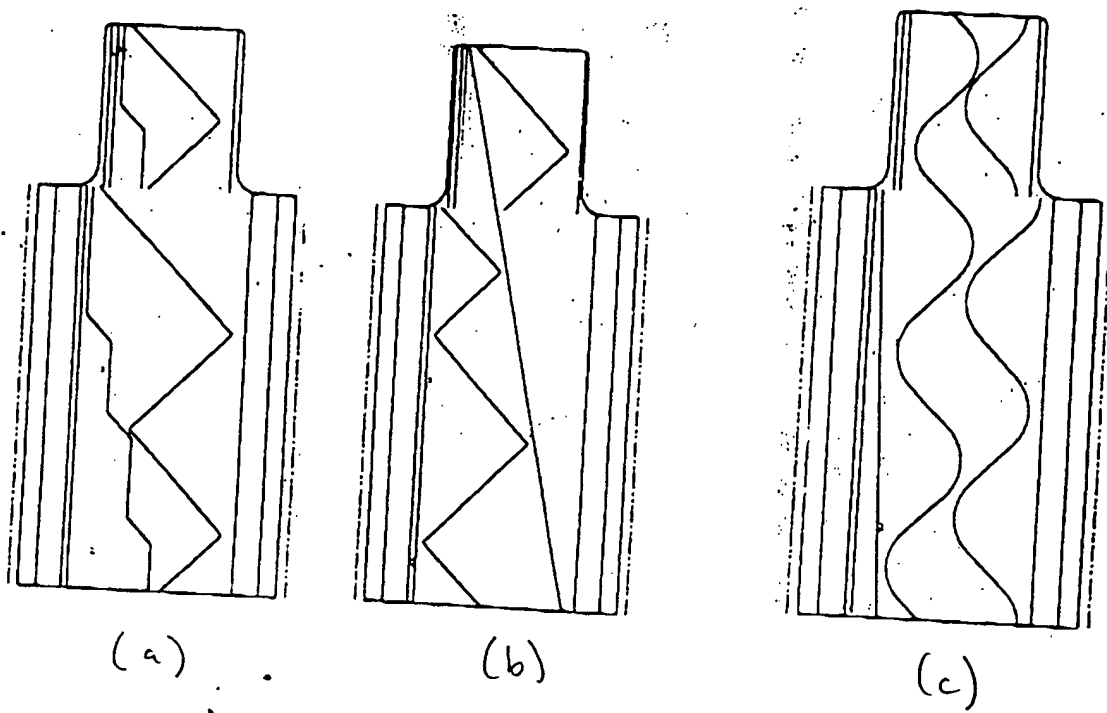
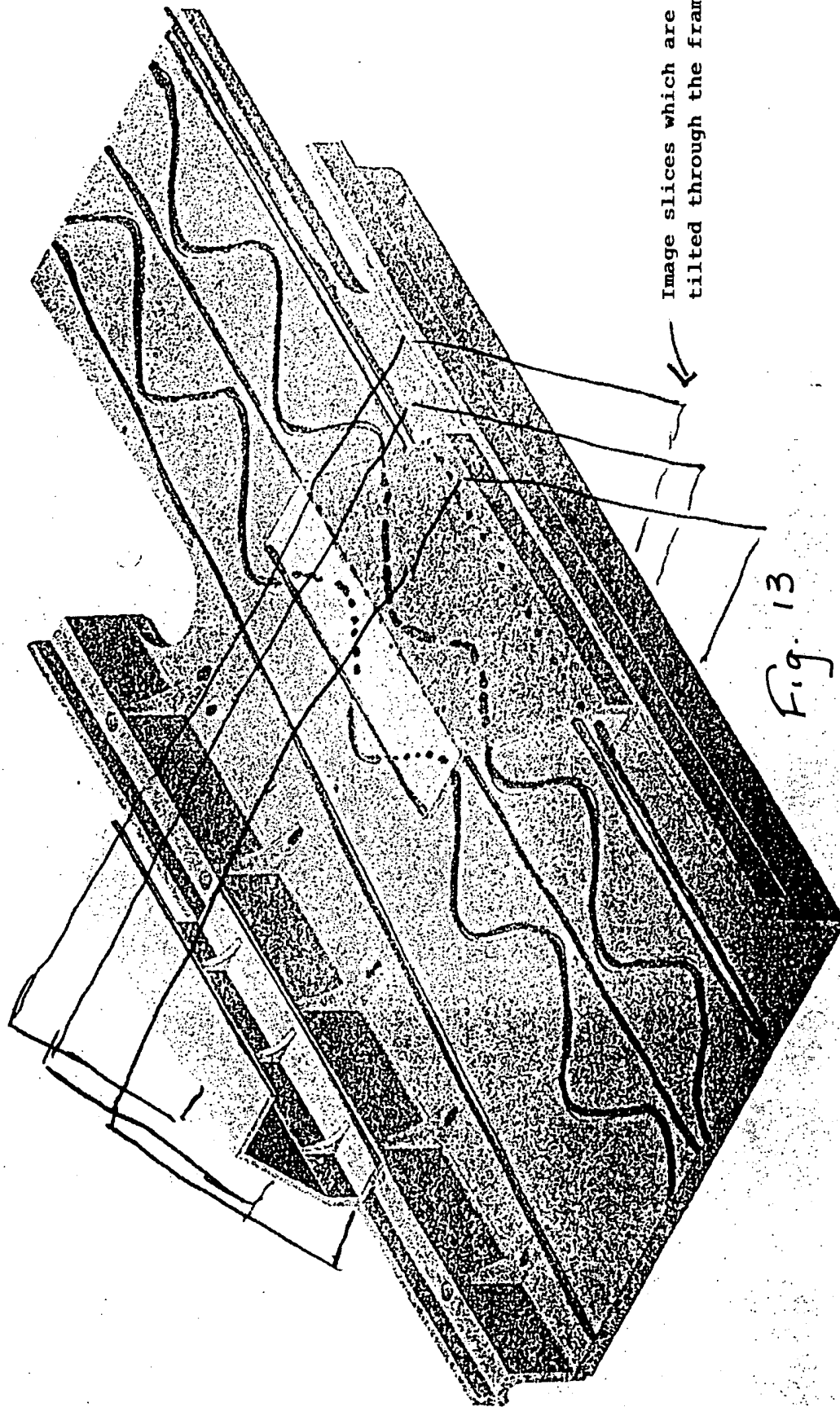


Fig. 12



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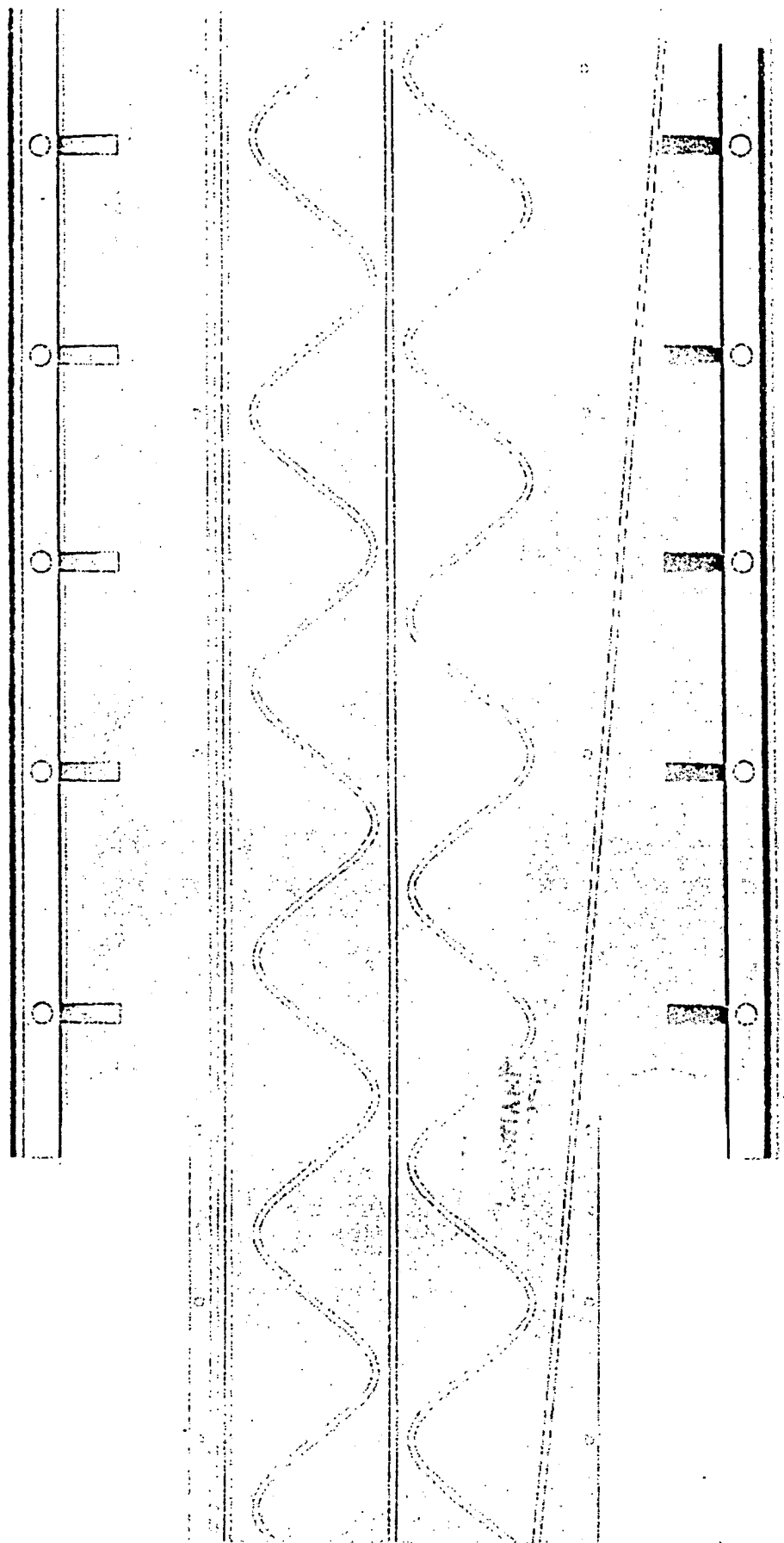


FIG. 14(a)

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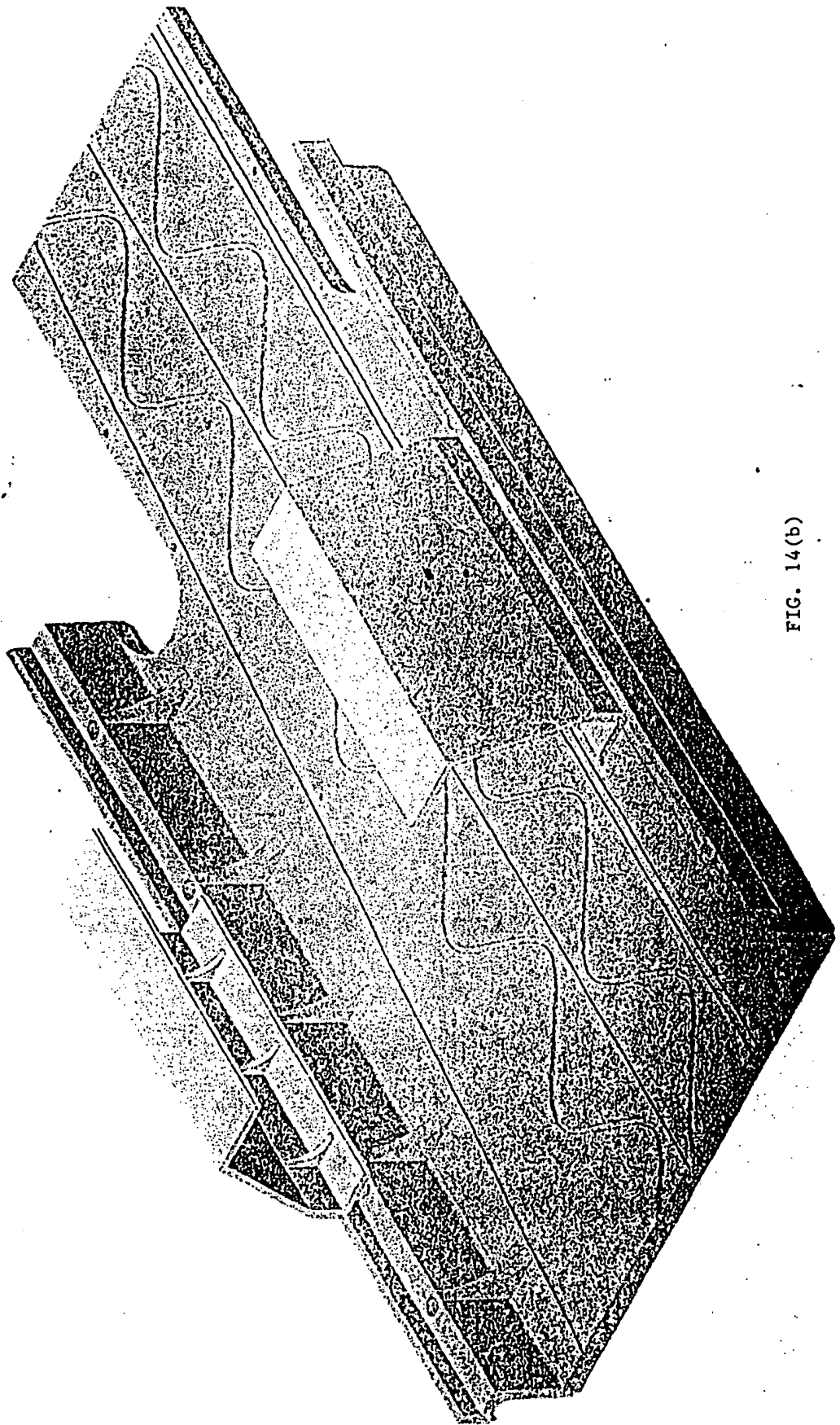


FIG. 14(b)